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In Exercises 1-6, write an equation in point-slope form of the line that passes through the given point and has the given slope.

1. $(3,4) \mathrm{m}=3$
2. $(-6,1) m=-4$
3. $(0,-2) \mathrm{m}=\frac{4}{5}$
4. $(-1,-3) \mathrm{m}=-\frac{1}{3}$
5. $(4,0) \mathrm{m}=2$
6. $(-1,1) \mathrm{m}=\frac{1}{3}$

In exercises 7-9, graph the line given a point on the line and the slope.
7. $(-6,5) \mathrm{m}=-2$
8. $(3,-1) \mathrm{m}=\frac{1}{3}$
9. $(0,-4) m=3$




In exercises 10-12, give the slope of the following lines, then name a point on each line.
10. $y+6=\frac{5}{6}(x+1)$
11. $y-3=-\frac{2}{5}(x+2)$
12. $y=-\frac{1}{2}(x-5)$

Slope $=$
Slope $=$
Slope $=$

Point ( , )
Point ( , )
Point ( , )

In exercises 13-14, graph the lines given the equation in point-slope form
13. $y+2=3(x-1)$

14. $y-5=-\frac{3}{4}(x+4)$


In exercises 15-16, write an equation of the line in point-slope form that passes through the given points 15. (-1, -2) and (2, 4)
16. $(3,0)$ and $(-8,1)$

In Exercises 17-20, convert the equation from point-slope form to slope-intercept form.
17. $y+6=-2(x-4)$
18. $y+7=4(x+3)$
19. $y-8=\frac{1}{3}(x+9)$
20. $y-1=\frac{2}{5}(x+10)$
21. Is $y-4=3(x+1)$ an equation of a line through $(-2,1)$ ? Explain.

